

Miniaturized Gate Drive Transformers

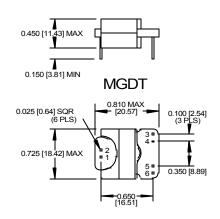


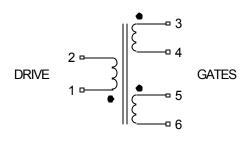
- · Deliver MOSFET/IGBT gate power and timing signals simultaneously
- Directly drive high-side MOSFETs/IGBTs on busses up to 1200V
- · Excellent risetime, overshoot, and peak current characteristics
- >8 mm minimum creepage and clearance from drive to gates
- · Low profile planar package
- · Available in through-hole and surface mount packages (contact engineering)

Model Selection Table											
		Useful	Transfer	Drive	Magnetizing	Leakage	DC Resistance ²		Capacitance		
	Package	Freq. Range	Ratio ¹	Excitation	Inductance 2,3	Inductance 4	Drive	Gates	Drive-Gate	Gate-Gate	
HiRel P/N	Style	(KHz)	(+/-3%)	(V•nS MAX)	(mH MIN)	(nH MAX)	(W MAX)	(W MAX)	(pF MAX)	(pF MAX)	
MGDT 100 100	TH	100 ~ 500	1:1:1	80	240	500	0.50	0.50	15	10	

Absolute Maximum Ratings (All Models)								
Parameter	Conditions	Limit(s)	Units					
Dielectric Withstand Voltage	Drive-gate; 1 min	3750	VAC					
	Gate-gate; 1 min	2500	VAC					
Total Power Dissipation ⁵	T _A = 25°C	2.0	W					
Operating Temperature	Continuous	-40 ~ +85	°C					
Storage Temperature	Continuous	-40 ~ +105	°C					

- 1. Drive : Gate : Gate.
- 2. T_A = 25°C.
- 3. 100mV @ 100KHz across the Drive winding with all Gates open.
- 4. 100mA @ 100KHz into the Drive winding with all Gates shorted.
- 5. Derate at 33.3mW / °C above 25°C.





Units are inches [mm].

Tolerance on all dimensions is +/-0.010 unless otherwise specified.

Specifications are subject to change without notice.

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